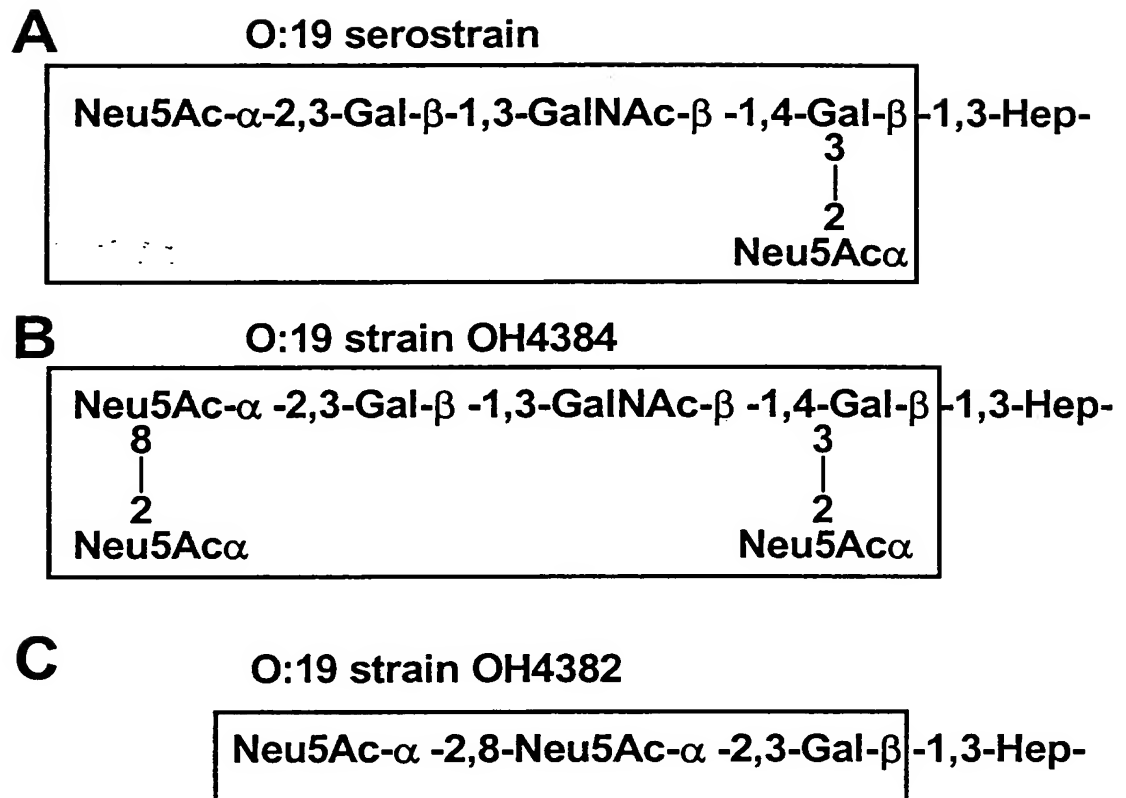


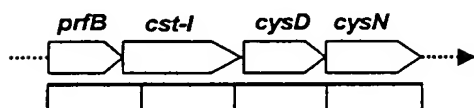
Figure 1



**Figure 2**

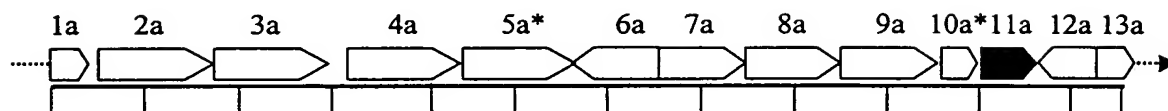
**A**

OH4384 *cst-I* locus (3.92 kb)



**B**

OH4382/OH4384 LOS biosynthesis locus (11.47 kb)



NCTC 11168 LOS biosynthesis locus (13.48 kb)

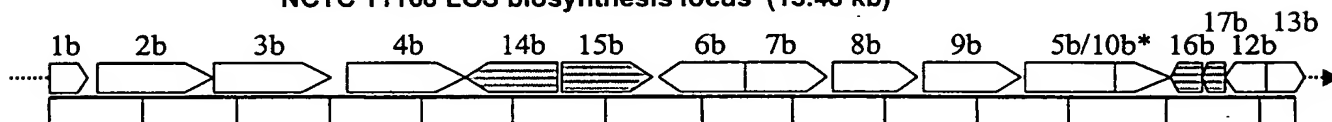


Figure 3

OH4384	-----MKKVIIAGNGPSLKEIDYSRLPNDFDVFR CNQFYFEDKYYLGKKC	45
O:19	-----MKKVIIAGNGPSLKEIDYSRLPNDFDVFR CNQFYFEDKYYLGKKC	45
Cst-I	MTRTRMENELIVSKNQNI I IAGNGPSLKNIN YKRLPREYDVFR CNQFYFEDKYYLGKKI	60
11168	-----MSMNINALVCGNGPSLKNIDYKRLPKQFDVFR CNQFYFEDRYFVGKDV	48
Hi_ORF	----- ^ ^ ^ ^ ^   ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	
OH4384	KAVFYNPILFFEQYYTLKHLIQNQEYETELIMCSN YNQAHLENENFVKTFYDYFPDAHLG	105
O:19	KAVFYTPNFFFEQYYTLKHLIQNQEYETELIMCSN YNQAHLENENFVKTFYDYFPDAHLG	105
Cst-I	KAVFFNPGVFLQQYHTAKQLILKNEYEIKNIFCSTFNLPFIESNDFLHQFYNNFFPDAKLG	120
11168	KYVFFNPFFVFEQYYTSKKLIQNEEYNIENIVCSTINLEYIDGQFVDNFELYFSDAFLG	108
Hi_ORF	-----MQLIKNNEYEYADIILSSFVN LGDSELKKIKNVOKLLTQVDIG ^	43
OH4384	YDFFKQLKDFNAYFKFHEIYFNQRITSGVYMC AIAIALGYKEIYLSGIDFYQN-GSSYAF	164
O:19	YDFFKQLKEFNAYFKFHEIYFNQRITSGVYMC AIAIALGYKEIYLSGIDFYQN-GSSYAF	164
Cst-I	YEVIENTLKEFYAYIKYNEIYFNKRITSGVYMC AIAIALGYKTIYLCGIDFYEG-DVIYPF	179
11168	HEIIKKLKDFFAYIKYNEIYFNQRITSGVYMC AIAIALGYKSIYISGIDFYQDTNNLYAF	168
Hi_ORF	HYLNLKLPADFAYLQYNELYENKRITSGVYMC AIVATVMGYKDLTLTGIDFYQEKGNPYAF * ^ * * ^   * ^ *   * ^ *   * ^ *   * ^ *   * ^ *	103
OH4384	DTKQKNLLKLAPNFKNDNSHYIGHSKNTDIK ALEFLEKTYKIKLYCLCPNSLLANFIELA	224
O:19	DTKQENLLKLAPDFKNDNSHYIGHSKNTDIK ALEFLEKTYKIKLYCLCPNSLLANFIELA	224
Cst-I	EAMSTNIKTIFPGIK-DFKPSNCHSKEYDIEAL KLLKSIYKVNIYALCDDSI LANHFPLS	238
11168	DNNKKNLLNKCTGFKNQKFKFINHSMACDLQ ALDYLKRYDVNIYSLNSD----EYFKLA	224
Hi_ORF	HHQKENIIKLLPSFSQNKSQSDIHSMEYDLN ALYFLQKHVGVIYICISPE SPLCNYPPLS *           ^ ^ ^           * *   *   *   * ^ *           * ^ ^ ^ ^ ^ *	163
OH4384	PNLN-SNFIIQEK-NNYTKDILIPSSEAYGKFSKN-----INFKKIK-IKENIYYK	272
O:19	PNLN-SNFIIQEK-NNYTKDILIPSSEAYGKFSKN-----INFKKIK-IKENVYYK	272
Cst-I	ININ-NNFTLENKHNSINDILLTDNTPGVSFYKNQLKADNKIMLNFYNILHSDNLIK F	297
11168	PDIG-SDFVLSKKPKKYINDILIPDKYAQERYYGK-----KSR-LKENLHYK	269
Hi_ORF	PLNNPITFILEEK-KNYTQDILIPPKFVYKKIGIYS-----KPR-IYQNLIFR ^ ^ ^   *           * ^ ^   * * * ^ ^                           ^ ^ ^ *	209
OH4384	LIKDLLRLPSDIKHYFKGK-----	291
O:19	LIKDLLRLPSDIKHYFKGK-----	291
Cst-I	LNKEIAVLKKQTTQRAKARIQNHL S	322
11168	LIKDLIRLPSDIKHYLKEKYANKNR	294
Hi_ORF	LIWDILRLPNDIKHALKSRKWD--- * ^ ^ ^           ^ * ^ ^ ^ ^ ^           *	231

**Figure 4**

